



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: Big River Industries, Inc.
FACILITY NAME: Livlite Division
FACILITY/PERMIT NO.: 412-0005
LOCATION: Livingston, Sumter County, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the Clean Air Act of 1990, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the Clean Air Act of 1990 are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date: Draft

Expiration Date: Draft

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit. The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>ADEM Admin Code r. 335-3-16-.02(6)</p> <p>ADEM Admin Code r. 335-3-16-.12(2)</p> <p>ADEM Admin Code r. 335-3-16-.05(e)</p> <p>ADEM Admin Code r. 335-3-16-.05(f)</p> <p>ADEM Admin Code r. 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> <p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> <p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> <p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>ADEM Admin Code r. 335-3-16-.05(h)</p> <p>ADEM Admin Code r. 335-3-16-.05(i)</p> <p>ADEM Admin Code r. 335-3-16-.05(j)</p> <p>ADEM Admin Code r. 335-3-16-.05(k)</p> <p>ADEM Admin Code r. 335-3-16-.07(a)</p>

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<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	<p>ADEM Admin Code r. 335-3-16-.07(b)</p>
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>ADEM Admin Code r. 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted no later than October 7th of each year.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: 	<p>ADEM Admin Code r. 335-3-16-.07(e)</p>

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<p>(1) The identification of each term or condition of this permit that is the basis of the certification;</p> <p>(2) The compliance status;</p> <p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date</p>	<p>ADEM Admin Code r. 335-3-16-.13(5)</p>

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<p>of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <p>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</p>	<p>ADEM Admin Code r. 335-3-1-.07(1), (2)</p>

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<p>(2) The expected length of time that the air pollution control equipment will be out of service;</p> <p>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</p> <p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>ADEM Admin Code r. 335-3-1-.08</p>

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<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be</p> <p>(c) utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	<p>ADEM Admin Code r. 335-3-4-.02</p>
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>ADEM Admin Code r. 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)2.</p>

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<p>measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)3.</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p>	<p>ADEM Admin Code r. 335-3-1-.05(3) and ADEM Admin Code r. 335-3-1-.04(1)</p>

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<p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>ADEM Admin Code r. 335-3-1-.04</p> <p>ADEM Admin Code r. 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>ADEM Admin Code r. 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring</p>	<p>ADEM Admin Code r.</p>

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<p>records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR Part 82</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p>	<p>40 CFR Part 68</p>

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<p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan</p>	
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>ADEM Admin Code r. 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in a reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>ADEM Admin Code r. 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>ADEM Admin Code r. 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>ADEM Admin Code r. 335-3-4-.03</p> <p>ADEM Admin Code r. 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part</p>	<p>ADEM Admin Code r. 335-3-4-.04</p>

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<p>335-3-4-.04.</p> <p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p> <p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and</p>	<p>ADEM Admin Code r. 335-3-1-.05</p> <p>40 CFR 64.7</p>

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<p>associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a</p>	

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<p>modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p> <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p>B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <ul style="list-style-type: none"> i. Improved preventive maintenance practices. ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. <p>More frequent or improved monitoring (only in conjunction</p>	<p>40 CFR 64.8</p>

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<p>with one or more steps under</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p>B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <ul style="list-style-type: none"> v. Improved preventive maintenance practices. vi. Process operation changes. vii. Appropriate improvements to control methods. viii. Other steps appropriate to correct control performance. ix. More frequent or improved monitoring (only in conjunction with one or more steps under 	

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<p style="text-align: center;">paragraphs (2)(b)(i) through (iv) above</p> <p>x. (3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <p style="padding-left: 40px;">A. Failed to address the cause of the control device performance problems; or</p> <p style="padding-left: 40px;">B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.</p> <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p>	<p>40 CFR 64.9</p>

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<p>(1) General reporting requirements</p> <p>A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.</p> <p>B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) General recordkeeping requirements.</p> <p>A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a</p>	

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<p>quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p> <p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or</p>	<p>40 CFR 64.10</p>

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<p>operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	

Summary Page for Raw Clay Crushing and Delivery System

<i>Permitted Operating Schedule:</i>	24	$\frac{\text{hours}}{\text{day}}$	* 7	$\frac{\text{days}}{\text{week}}$	* 52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-016*	Common Hopper 380-31	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-017*	Common Belt Conveyor 381-43	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-018*	Line No. 1 Clay Hopper 381-41	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-019*	Line No. 1 Belt Conveyor 381-11	PM	N/A	N/A
		Opacity	10%	§60.672(b)
F-020*	Line No. 1 Belt Conveyor 381-13	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-021*	Common Belt Conveyor 381-42	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-022*	Line No. 2 Clay Hopper 381-44	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-023*	Line No. 2 Belt Conveyor 381-21	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-024*	Line No. 2 Belt Conveyor 381-23	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-025*	Line No. 2 Belt Conveyor 381-24	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-026*	Line No. 3 Belt Conveyor 380-32	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-028*	Line No. 3 Belt Conveyor 381-31	PM	N/A	N/A

		Opacity	10%	40 CFR §60.672(b)
F-029*	Line No. 3 Belt Conveyor 381-33	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-200*	Stockpile Line No. 3	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-201*	Stockpile Line No. 3	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-202*	Line No. 3 Primary Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-203*	Line No. 3 Primary Crusher 380-11	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-204*	Line No. 3 Belt Conveyor 380-13	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-205*	Line No. 3 Cross Conveyor 380-17	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-300*	Stockpile Line No. 4	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-301*	Stockpile Line No. 4	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-302*	Line No. 4 Primary Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-303*	Line No. 4 Primary Crusher 380-21	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-304*	Line No. 4 Belt Conveyor 380-16	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-305*	Line No. 4 Cross Conveyor 380-23	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)

* - All PM emissions from this process are fugitive.

Provisos for Raw Clay Crushing and Delivery System

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart OOO, <i>“Standards of Performance for Nonmetallic Mineral Processing Plants”</i> .	40 CFR §60.670(a)(1),(e)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, <i>“General Provisions”</i> .	40 CFR §60.670(f)
Emissions Standards	
1. The opacity of any fugitive emissions discharged into the atmosphere from any transfer point on belt conveyors shall not exceed ten (10%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(b)
2. The opacity of any fugitive emissions discharged into the atmosphere from any crusher, at which a capture system is not used, shall not exceed fifteen (15%) percent opacity, as determined by a six-minute average	40 CFR §60.672(c)
3. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements 40 CFR 60, Subpart OOO	40 CFR §60.672(d)
Compliance and Performance Test Methods and Procedures	
1. In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §60.675, except as provided in §60.8(b). Acceptable alternative methods and procedures are allowed as specified in §60.675(e).	40 CFR §60.675(a)

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<p>2. Visible emissions observations (VEO) shall be conducted in accordance with §60.11 and Method 9 of 40 CFR 60, Appendix A, with the following additions:</p> <p>(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.</p> <p>(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.</p>	<p>40 CFR §60.675(c)(1)</p> <p>40 CFR §60.675(c)(1)(i)</p> <p>40 CFR §60.675(c)(1)(ii)</p> <p>40 CFR §60.675(c)(1)(iii)</p>
<p>3. When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:</p>	<p>40 CFR §60.675(c)(3)</p>
<p>(a) There are no individual readings greater than ten (10%) percent opacity; and</p>	<p>40 CFR §60.675(c)(3)(i)</p>
<p>(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.</p>	<p>40 CFR §60.675(c)(3)(ii)</p>
<p>4. When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used, as described under §60.672(c), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:</p>	<p>40 CFR §60.675(c)(4)</p>
<p>(a) There are no individual readings greater than fifteen (15%) percent opacity; and</p>	<p>40 CFR §60.675(c)(4)(i)</p>
<p>(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.</p>	<p>40 CFR §60.675(c)(4)(ii)</p>

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5. The following may be used as alternatives to the reference methods and procedures specified in §60.675 if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read:	40 CFR §60.675(e)(1)
(a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream	40 CFR §60.675(e)(1)(i)
(b) Separate the emissions so that the opacity of emissions from each affected facility can be read.	40 CFR §60.675(e)(1)(ii)
6. If, after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least seven (7) days prior to any rescheduled performance test.	40 CFR §60.675(g)
Emission Monitoring	
1. Opacity monitoring for the following units shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)

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Recordkeeping Requirements							
<p>1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p> <p>2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)(2)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(2)</p>						
Reporting Requirements							
<p>1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:</p> <table border="1" data-bbox="156 1099 1059 1294"> <thead> <tr> <th>Reporting Period</th><th>Due Date</th></tr> </thead> <tbody> <tr> <td>August 8th through February 7th</td><td>April 8th</td></tr> <tr> <td>February 8th through August 7th</td><td>October 7th</td></tr> </tbody> </table> <p>2. Each semi-annual report shall contain the following information:</p> <p>(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;</p> <p>(b) Copy of every visible emissions observation report generated during the reporting period;</p> <p>(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;</p> <p>(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and</p>	Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	<p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p>
Reporting Period	Due Date						
August 8 th through February 7 th	April 8 th						
February 8 th through August 7 th	October 7 th						

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<p>(e) Signature of the responsible official as required by General Permit Proviso No. 9.</p> <p>3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)(3)</p> <p>40 CFR §60.676(f)</p>

Summary Page for Kiln and Cooler No. 1

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
EPN-1A	Kiln No. 1 with Multiclones and Scrubber	NO _x	N/A	N/A
		SO ₂	N/A	N/A
		CO	N/A	N/A
		VOC	N/A	N/A
		Opacity	20%	ADEM Admin. Code r. 335-3-4-.01(a)&(b)
EPN-1A and EPN-1B	Kiln No. 1 with Multiclones and Scrubber and Cooler No. 1 with Multiclones ^a	PM	$E = 4.10P^{0.67}$ (P<30TPH) or $E = 55.0P^{0.11} - 40$ (P≥30TPH)	ADEM Admin. Code r. 335-3-4-.04(2)
F-035	Cooling Screw ^b	PM	N/A	N/A
F-036	Product Conveyor ^b	PM	N/A	N/A

^a – Combined PM emissions limit for Kiln No. 1 and Cooler No. 1

^b - Emissions from these sources are fugitive.

Provisos for Kiln and Cooler No. 1

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Control of Particulate Emissions – Visible Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.01(a)&(b)
3. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
4. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.04, <i>“Control of Particulate Emissions – Process Industries - General”</i> .	ADEM Admin. Code r. 335-3-4-.04(2)
5. These sources are subject to the applicable requirements of 40 CFR 64, <i>“Compliance Assurance Monitoring”</i> .	40 CFR §64.2(a)(1)(2)&(3)
Emissions Standards	
1. The opacity of any visible emissions discharged into the atmosphere from the scrubber stack associated with the kiln or the multiclone stack associated with the cooler shall not exceed twenty (20%) percent, as determined by a six (6) minute average. During one six (6) minute period in any sixty (60) minute period, visible emissions shall not exceed forty percent (40%) opacity, as determined by a six (6) minute average.	ADEM Admin. Code r. 335-3-4-.01(1)(a) and (b)
2. Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class II County.	ADEM Admin. Code r. 335-3-4-.04(2)
3. Properly maintained and operated devices shall be utilized to continuously measure the pressure differential (ΔP) and scrubber liquid flow rate across the scrubber.	ADEM Admin. Code r. 335-3-4-.04(2)

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<i>Compliance and Performance Test Methods and Procedures</i>	
1. Particulate matter (PM) emissions shall be determined in accordance with Method 5 or 17 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
2. Sulfur dioxide (SO ₂) emissions shall be determined in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
3. Nitrogen oxides (NO _x) emissions shall be determined in accordance with Method 7 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
5. Carbon monoxide (CO) emissions shall be determined in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
6. Instantaneous visible emissions observations shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
<i>Emission Monitoring</i>	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(a) A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack associated with the kiln and the multiclone stack associated with the cooler at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(b) If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(c) If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3

Federally Enforceable Provisos	Regulatory Citation
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
2. A properly maintained and operated device shall be utilized measure the hourly raw material feed rate to the kiln.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
3. If the raw material feed rate is increased to or exceed 35 tons per hour (TPH) or a visible emission limitations is exceeded at a feed rate less than 35 TPH, and emissions test shall be performed within a timeframe established by the Department.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
4. Particulate matter (PM) emissions tests shall be conducted on the kiln and cooler at an interval not to exceed twelve (12) consecutive months.	40 CFR §64.3
5. Pressure drop (ΔP) across the scrubber shall be maintained between 90% and 110% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.7
6. The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.7
7. Source specific CAM monitoring is outlined in Appendix A .	40 CFR §64.3

Federally Enforceable Provisos	Regulatory Citation
Recordkeeping Requirements	
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.9
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.9
3. Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.9
4. Records documenting the pressure differential (ΔP) and liquid flow rate across the scrubber shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.9
5. Records documenting the hourly raw material feed rate to the kiln shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2)
6. Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.9

Federally Enforceable Provisos		Regulatory Citation									
Reporting Requirements											
1. Quarterly excess emissions reports shall be submitted to the Department according to the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)									
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>January 1st through March 31st</td><td>April 30th</td></tr><tr><td>April 1st through June 30th</td><td>July 30th</td></tr><tr><td>July 1st through September 30th</td><td>October 30th</td></tr><tr><td>October 1st through December 31st</td><td>January 30th</td></tr></table>	Reporting Period	Due Date	January 1 st through March 31 st	April 30 th	April 1 st through June 30 th	July 30 th	July 1 st through September 30 th	October 30 th	October 1 st through December 31 st	January 30 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date										
January 1 st through March 31 st	April 30 th										
April 1 st through June 30 th	July 30 th										
July 1 st through September 30 th	October 30 th										
October 1 st through December 31 st	January 30 th										
2. Each quarterly excess emissions report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)									
(a) A description of each instance in which the recorded wet scrubber differential pressure was less than 90% or greater than 110% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;	ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(b) A description of each instance in which the recorded wet scrubber liquid flow rate was less than 80% or greater than 120% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;	ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(c) A description of each instance in which the recorded average raw material feed rate (clay and coal) is greater than 110% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;	ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(d) When no exceedances occur, the report shall contain a statement certifying that no exceedances occurred during the calendar quarter;	ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(e) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	ADEM Admin. Code r. 335-3-16-.05(c)(3)										

Federally Enforceable Provisos		Regulatory Citation						
(f) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
3. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
4. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(e) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Summary Page for Kiln and Cooler No. 2

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
EPN-2A	Kiln No. 2 with Multiclones and Scrubber	NO _x	N/A	N/A
		SO ₂	N/A	N/A
		CO	N/A	N/A
		VOC	N/A	N/A
		Opacity	20%	ADEM Admin. Code r. 335-3-4-.01(a)&(b)
EPN-2A and EPN-2B	Kiln No. 2 with Multiclones and Scrubber and Cooler No. 2 with Multiclones ^a	PM	$E = 3.59P^{0.62}$ (P<30TPH) or $E = 17.31P^{0.16}$ (P≥30TPH)	ADEM Admin. Code r. 335-3-4-.04(1)
F-041	Cooling Screw ^b	PM	N/A	N/A
F-042	Product Conveyor ^b	PM	N/A	N/A

^a – Combined PM emissions limit for Kiln No. 2 and Cooler No. 2

^b - Emissions from these sources are fugitive.

Provisos for Kiln and Cooler No. 2

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Control of Particulate Emissions – Visible Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.01(a)&(b)
3. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
4. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.04, <i>“Control of Particulate Emissions – Process Industries - General”</i> .	ADEM Admin. Code r. 335-3-4-.04(1)
5. These sources are subject to the applicable requirements of 40 CFR 64, <i>“Compliance Assurance Monitoring”</i> .	40 CFR §64.2(a)(1)(2)&(3)
Emissions Standards	
1. The opacity of any visible emissions discharged into the atmosphere from the scrubber stack associated with the kiln or the multiclone stack associated with the cooler shall not exceed twenty (20%) percent, as determined by a six (6) minute average. During one six (6) minute period in any sixty (60) minute period, visible emissions shall not exceed forty percent (40%) opacity, as determined by a six (6) minute average.	ADEM Admin. Code r. 335-3-4-.01(1)(a) and (b)
2. Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class I County.	ADEM Admin. Code r. 335-3-4-.04(1)

Federally Enforceable Provisos	Regulatory Citation
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Particulate matter (PM) emissions shall be determined in accordance with Method 5 or 17 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
2. Sulfur dioxide (SO ₂) emissions shall be determined in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
3. Nitrogen oxides (NO _x) emissions shall be determined in accordance with Method 7 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
5. Carbon monoxide (CO) emissions shall be determined in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
6. Instantaneous visible emissions observations shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
<i>Emission Monitoring</i>	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(a) A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack associated with the kiln and the multiclone stack associated with the cooler at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(b) If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(c) If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3

Federally Enforceable Provisos	Regulatory Citation
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
2. Properly maintained and operated devices shall be utilized to continuously measure the pressure differential (ΔP) and scrubber liquid flow rate.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
3. A properly maintained and operated device shall be utilized measure the hourly raw material feed rate to the kiln.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
4. Particulate matter (PM) emissions tests shall be conducted on the kiln and cooler at an interval not to exceed twelve (12) months.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
5. Pressure drop (ΔP) across the scrubber shall be maintained between 90% and 110% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.7
6. The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.7
7. Source specific CAM monitoring is outlined in Appendix A .	40 CFR §64.3
Recordkeeping Requirements	
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
3. Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a	ADEM Admin. Code r. 335-3-16-.05(c)(2) and

Federally Enforceable Provisos		Regulatory Citation										
permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		40 CFR §64.9										
4. Records documenting the pressure differential (ΔP) and liquid flow rate across the scrubber shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9										
5. Records documenting the hourly raw material feed rate to the kiln shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)										
6. Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9										
Reporting Requirements												
1. Quarterly excess emissions reports shall be submitted to the Department according to the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>January 1st through March 31st</td><td>April 30th</td></tr><tr><td>April 1st through June 30th</td><td>July 30th</td></tr><tr><td>July 1st through September 30th</td><td>October 30th</td></tr><tr><td>October 1st through December 31st</td><td>January 30th</td></tr></table>		Reporting Period	Due Date	January 1 st through March 31 st	April 30 th	April 1 st through June 30 th	July 30 th	July 1 st through September 30 th	October 30 th	October 1 st through December 31 st	January 30 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date											
January 1 st through March 31 st	April 30 th											
April 1 st through June 30 th	July 30 th											
July 1 st through September 30 th	October 30 th											
October 1 st through December 31 st	January 30 th											
2. Each quarterly excess emissions report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(a) A description of each instance in which the recorded wet scrubber differential pressure was less than 90% or greater than 110% of the average value recorded during		ADEM Admin. Code r. 335-3-16-.05(c)(3)										

Federally Enforceable Provisos		Regulatory Citation						
the most recent performance test which demonstrated compliance with the particulate matter emissions standard;								
(b) A description of each instance in which the recorded wet scrubber liquid flowrate was less than 80% or greater than 120% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) A description of each instance in which the recorded average raw material feed rate (clay and coal) is greater than 110% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(d) When no exceedances occur, the report shall contain a statement certifying that no exceedances occurred during the calendar quarter;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(e) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(f) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
3. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
4. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Federally Enforceable Provisos	Regulatory Citation
(b) Copy of every visible emissions observation report generated during the reporting period;	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(e) Signature of the responsible official as required by General Permit Proviso No. 9.	ADEM Admin. Code r. 335-3-16-.05(c)(3)

Summary Page for Kiln and Cooler No. 3

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	* 7	$\frac{\text{days}}{\text{week}}$	* 52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
EPN-3A	Kiln No. 3 with Multiclone and Wet Scrubber	PM	0.36 lb/ton	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			22.97 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			0.040 gr/dscf	40 CFR §60.732(a)
		NO _x	220 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
		SO ₂	2.24 lb/ton	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			145.0 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			80% removal efficiency	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			1.5% (fuel sulfur content)	ADEM Admin. Code r. 334-3-14-.04 (BACT)
		CO	1.23 lb/ton	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			80.0 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
		VOC	N/A	N/A
		Opacity	20%	ADEM Admin. Code r. 334-3-4-.01

EPN-3B	Cooler No. 3 with Baghouse	PM	0.17 lb/ton	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			10.70 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
EPN-3A and EPN-3B	Kiln No. 3 with Multiclone and Wet Scrubber and Cooler No. 3 with Baghouse ^a	PM	0.52 lb/ton	ADEM Admin. Code r. 334-3-14-.04 (BACT)
			33.67 lb/hr	ADEM Admin. Code r. 334-3-14-.04 (BACT)
F-046	Baghouse Dust Conveyor Screw ^b	PM	N/A	N/A
F-047	Baghouse Dust Conveyor Screw ^b	PM	N/A	N/A
F-048	Baghouse Dust Conveyor Screw ^b	PM	N/A	N/A
F-049	Baghouse Dust Conveyor Screw ^b	PM	N/A	N/A
F-050	Cooling Screw ^b	PM	N/A	N/A
F-051	Product Conveyor ^b	PM	N/A	N/A

^a – Combined PM emissions limit for Kiln No.3 and Cooler No. 3

^b – Emissions from these sources are fugitive

Provisos for Kiln and Cooler No. 3

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Control of Particulate Emissions – Visible Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.01(a)&(b)
3. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
4. These sources are subject to enforceable PM, SO ₂ , CO, and NO _x emissions limits in order to comply with the applicable requirements of ADEM Admin. Code r. 334-3-14-.04, <i>“Prevention of Significant Deterioration (BACT)”</i> .	ADEM Admin. Code r. 334-3-14-.04
5. These sources are subject to the applicable requirements of 40 CFR 60, Subpart UUU, <i>“Standards of Performance for Calciners and Dryers in Mineral Industries”</i> .	40 CFR §60.730(a) and (c)
6. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, <i>“General Provisions”</i> .	40 CFR §60.731
7. These sources are subject to the applicable requirements of 40 CFR 64, <i>“Compliance Assurance Monitoring”</i> .	40 CFR §64.2(a)(1)(2)&(3)
Emissions Standards	
1. The opacity of any visible emissions discharged into the atmosphere from the scrubber stack associated with the kiln or the baghouse stack associated with the cooler shall not exceed twenty (20%) percent, as determined by a six (6) minute average. During one six (6) minute period in any sixty (60) minute period, visible emissions shall not exceed forty percent (40%) opacity, as determined by a six (6) minute average.	ADEM Admin. Code r. 335-3-4-.01(1)(a) and (b)
2. Particulate matter (PM) emissions from the stack associated with the kiln shall not exceed 0.36 lb/ton raw material feed and 22.97 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)

Federally Enforceable Provisos	Regulatory Citation
3. Particulate matter (PM) emissions from the stack associated with the cooler shall not exceed 0.17 lb/ton raw material feed and 10.70 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
4. Combined particulate matter (PM) emissions from the stacks associated with the kiln and cooler shall not exceed 0.52 lb/ton raw material feed and 33.67 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
5. Particulate matter (PM) emissions from the kiln shall not exceed 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)].	40 CFR §60.732(a)
6. Nitrogen oxides (NO _x) emissions from the stack associated with the kiln shall not exceed 220 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
7. The raw material feed rate shall not exceed 83 TPH.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
8. Sulfur dioxide (SO ₂) emissions from the stack associated with the kiln shall not exceed 2.24 lb/ton of raw material feed and 145.0 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
9. The scrubber shall be maintained and properly operated in such a manner as to maintain a minimum SO ₂ removal efficiency of 80%.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
10. The sulfur content of the primary fuel source utilized in the kiln shall not exceed 1.5% by weight.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
11. Carbon monoxide (CO) emissions from the stack associated with the kiln shall not exceed 1.23 lb/ton of raw material feed and 80.0 lb/hr.	ADEM Admin. Code r. 334-3-14-.04 (BACT)
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions shall be determined in accordance with Method 5 or 17 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
2. Sulfur dioxide (SO ₂) emissions shall be determined in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
3. Nitrogen oxides (NO _x) emissions shall be determined in accordance with Method 7 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
4. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05

Federally Enforceable Provisos	Regulatory Citation
5. Carbon monoxide (CO) emissions shall be determined in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
6. Instantaneous visible emissions observations shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(a) A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack associated with the kiln and baghouse stack associated with the cooler at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(b) If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(c) If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
2. Properly maintained and operated devices shall be utilized to continuously measure the pressure differential (ΔP) across the scrubber, the scrubber liquid flow rate, and scrubber liquid pH.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
3. A properly maintained and operated device shall be utilized to measure the pressure differential (ΔP) across the cooler baghouse.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3

Federally Enforceable Provisos	Regulatory Citation
4. A properly maintained and operated device shall be utilized measure the hourly raw material feed rate to the kiln.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
5. Carbon monoxide (CO) emissions tests shall be conducted on the kiln at an interval not to exceed twelve (12) months.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
6. Particulate matter (PM) emissions tests shall be conducted on the kiln and cooler at an interval not to exceed twelve (12) months.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
7. Nitrogen oxides (NO _x) emissions tests shall be conducted on the kiln at an interval not to exceed twelve (12) months.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
8. Sulfur dioxide (SO ₂) emissions and removal efficiency shall be conducted on the kiln at an interval not to exceed twelve (12) months.	ADEM Admin. Code r. 335-3-16-.05(c)(1) and 40 CFR §64.3
9. Pressure drop (ΔP) across the scrubber shall be maintained between 12.54 inches of water and 19.11 inches of water.	ADEM Admin. Code r. 334-3-14-.04 (BACT) and 40 CFR §64.7
10. The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.	ADEM Admin. Code r. 334-3-14-.04 (BACT) and 40 CFR §64.7
11. A minimum pH of 3.5 shall be maintained across the scrubber.	ADEM Admin. Code r. 334-3-14-.04 (BACT) and 40 CFR §64.7
12. Pressure drop (ΔP) across the cooler baghouse shall be maintained between a minimum of one (1) inches of water and a maximum of ten (10) inches of water.	ADEM Admin. Code r. 334-3-14-.04 (BACT) and 40 CFR §64.7
13. Source specific CAM monitoring is outlined in Appendix A .	40 CFR §64.3

Federally Enforceable Provisos	Regulatory Citation
Recordkeeping Requirements	
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
3. Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
4. Records documenting the pressure differential (ΔP) across the scrubber, the scrubber liquid flow rate, and scrubber liquid pH shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
5. Records documenting the pressure differential (ΔP) across the cooler baghouse shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9
6. Records documenting the hourly raw material feed rate to the kiln shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2)

Federally Enforceable Provisos		Regulatory Citation										
7. Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2) and 40 CFR §64.9										
Reporting Requirements												
1. Quarterly excess emissions reports shall be submitted to the Department according to the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>January 1st through March 31st</td><td>April 30th</td></tr><tr><td>April 1st through June 30th</td><td>July 30th</td></tr><tr><td>July 1st through September 30th</td><td>October 30th</td></tr><tr><td>October 1st through December 31st</td><td>January 30th</td></tr></table>		Reporting Period	Due Date	January 1 st through March 31 st	April 30 th	April 1 st through June 30 th	July 30 th	July 1 st through September 30 th	October 30 th	October 1 st through December 31 st	January 30 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date											
January 1 st through March 31 st	April 30 th											
April 1 st through June 30 th	July 30 th											
July 1 st through September 30 th	October 30 th											
October 1 st through December 31 st	January 30 th											
2. Each quarterly excess emissions report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(a) A description of each instance in which the recorded wet scrubber differential pressure was less than 12.54 inches water or greater than 19.11 inches water of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(b) A description of each instance in which the recorded wet scrubber liquid flow rate was less than 80% or greater than 120% of the average value recorded during the most recent performance test which demonstrated compliance with the particulate matter emissions standard;		ADEM Admin. Code r. 335-3-16-.05(c)(3)										
(c) A description of each instance in which the recorded average raw material feed rate (clay and coal) is greater than 83 TPH;		ADEM Admin. Code r. 335-3-16-.05(c)(3)										

Federally Enforceable Provisos		Regulatory Citation						
(d) A description of each instance in which the recorded scrubber liquid pH fell below the required minimum of 3.5;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(e) When no exceedances occur, the report shall contain a statement certifying that no exceedances occurred during the calendar quarter;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(f) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(g) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
3. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
4. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(e) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Summary Page for Kiln Dust Transport System

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
EPN-4	Kiln No. 1 and No. 2 Dust Transport System with Dust Silo and Baghouse	PM	0.022 gr/dscf	40 CFR §60.672(a)(1)
		Opacity	7%	40 CFR §60.672(a)(2)
EPN-5	Kiln No. 3 Dust Transport System with Dust Silo and Baghouse	PM	0.022 gr/dscf	40 CFR §60.672(a)(1)
		Opacity	7%	40 CFR §60.672(a)(2)

Provisos for Kiln Dust Transport System

Federally Enforceable Provisos	Regulatory Citation
<i>Applicability</i>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, "Fugitive Dust and Fugitive Emissions".	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants".	40 CFR §60.670(a)(1),(e)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, "General Provisions".	40 CFR §60.670(f)
5. These sources are subject to the applicable requirements of 40 CFR 64, "Compliance Assurance Monitoring".	40 CFR §64.2(a)(1)(2)&(3)
<i>Emissions Standards</i>	
1. The opacity of visible emissions discharged into the atmosphere from each baghouse stack associated with each dust handling system shall not exceed seven (7%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(a)(2)
2. The opacity of any fugitive emissions discharged into the atmosphere from any transfer point on belt conveyors shall not exceed ten (10%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(b)
3. Particulate matter emissions discharged from each baghouse associated with each dust transport system shall not exceed 0.022 gr/dscf.	40 CFR §60.672(a)(1)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §60.675, except as provided in §60.8(b). Acceptable alternative methods and procedures are allowed as specified in §60.675(e).	40 CFR §60.675(a)

Federally Enforceable Provisos	Regulatory Citation
2. The owner or operator shall determine compliance with the particulate matter standards in §60.672(a) as follows:	40 CFR §60.675(b)
(a) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.	40 CFR §60.675(b)(1)
(b) Method 9 and the procedures in §60.11 shall be used to determine opacity.	40 CFR §60.675(b)(2)
3. Visible emissions observations (VEO) shall be conducted in accordance with §60.11 and Method 9 of 40 CFR 60, Appendix A, with the following additions:	40 CFR §60.675(c)(1)
(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).	40 CFR §60.675(c)(1)(i)
(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.	40 CFR §60.675(c)(1)(ii)
(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.	40 CFR §60.675(c)(1)(iii)
4. When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:	40 CFR §60.675(c)(3)

Federally Enforceable Provisos	Regulatory Citation
(a) There are no individual readings greater than ten (10%) percent opacity; and	40 CFR §60.675(c)(3)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(3)(ii)
5. If, after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least seven (7) days prior to any rescheduled performance test.	40 CFR §60.675(g)
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
2. Pressure drop (ΔP) across each baghouse shall be maintained between a minimum of one (1) inches of water and a maximum of ten (10) inches of water.	ADEM Admin. Code r. 334-3-14-.04 (BACT) and 40 CFR §64.7
3. Source specific CAM monitoring is included in Appendix A .	40 CFR §64.4(a)-(d)

Federally Enforceable Provisos		Regulatory Citation						
Recordkeeping Requirements								
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer’s certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
Reporting Requirements								
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>	Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th		ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Federally Enforceable Provisos	Regulatory Citation
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(e) Signature of the responsible official as required by General Permit Proviso No. 9.	ADEM Admin. Code r. 335-3-16-.05(c)(3)
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.	40 CFR §60.676(f)

Summary Page for Slider Crushing System

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	* 7	$\frac{\text{days}}{\text{week}}$	* 52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-052*	Slider Crushing System Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-053*	Slider Crushing System	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-055*	Slider Crusher System Conveyor	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-057*	Slider Crusher System Conveyor	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-215*	Portable Slider Crusher System Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-216*	Portable Slider Crusher	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-217*	Portable Slider Crushing System Conveyor	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-218*	Portable Slider Crushing System Conveyor	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)

* - Emissions from these sources are fugitive.

Provisos for Slider Crushing System

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, “ <i>Fugitive Dust and Fugitive Emissions</i> ”.	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart OOO, “ <i>Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	40 CFR §60.670(a)(1),(e)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, “ <i>General Provisions</i> ”.	40 CFR §60.670(f)
Emissions Standards	
1. Wet suppression shall be utilized at all times in order to minimize fugitive emissions from stockpiles, screens, crushers, hoppers, bins, conveyors, transfer points, etc.	ADEM Admin. Code r. 335-3-16-.05
2. The opacity of any fugitive emissions discharged into the atmosphere from any transfer point on belt conveyors shall not exceed ten (10%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(b)
3. The opacity of any fugitive emissions discharged into the atmosphere from any crusher, at which a capture system is not used, shall not exceed fifteen (15%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(c)
Compliance and Performance Test Methods and Procedures	
1. In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §60.675, except as provided in §60.8(b). Acceptable alternative methods and procedures are allowed as specified in §60.675(e).	40 CFR §60.675(a)
2. Visible emissions observations (VEO) shall be conducted in accordance with §60.11 and Method 9 of 40 CFR 60,	40 CFR §60.675(c)(1)

Federally Enforceable Provisos	Regulatory Citation
Appendix A, with the following additions:	
(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).	40 CFR §60.675(c)(1)(i)
(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.	40 CFR §60.675(c)(1)(ii)
(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.	40 CFR §60.675(c)(1)(iii)
3. When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:	40 CFR §60.675(c)(3)
(a) There are no individual readings greater than ten (10%) percent opacity; and	40 CFR §60.675(c)(3)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(3)(ii)
4. When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used, as described under §60.672(c), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply.	40 CFR §60.675(c)(4)
(a) There are no individual readings greater than fifteen (15%) percent opacity; and	40 CFR §60.675(c)(4)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(4)(ii)
5. The following may be used as alternatives to the reference methods and procedures specified in §60.675 if emissions	40 CFR §60.675(e)(1)

Federally Enforceable Provisos	Regulatory Citation
from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read	
(a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.	40 CFR §60.675(e)(1)(i)
(b) Separate the emissions so that the opacity of emissions from each affected facility can be read.	40 CFR §60.675(e)(1)(ii)
6. If, after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least seven (7) days prior to any rescheduled performance test.	40 CFR §60.675(g)
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)

Federally Enforceable Provisos		Regulatory Citation						
Recordkeeping Requirements								
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer’s certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
Reporting Requirements								
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Federally Enforceable Provisos	Regulatory Citation
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(e) Signature of the responsible official as required by General Permit Proviso No. 9.	ADEM Admin. Code r. 335-3-16-.05(c)(3)
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.	40 CFR §60.676(f)

Summary Page for Finished Aggregate Screening and Crushing System

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-058*	Kiln Product Stockpile	PM	N/A	N/A
		Opacity	N/A	N/A
F-059*	Kiln Product Stockpile	PM	N/A	N/A
		Opacity	N/A	N/A
F-060*	Product Conveyor	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-061*	8 x 20 Product Screen	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-212*	Product Conveyor to Silo No. 4	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-213*	Product Conveyor to Silo No. 4	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-062*	Product Conveyor to Silo No. 5	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-063*	Product Conveyor to Surge Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-066*	Conveyor to Aggregate Crusher No. 1	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-067*	Aggregate Crusher No. 1	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)

F-068*	Conveyor from Crusher No. 1 to 6 x 20 Screen No. 1	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-069*	6 x 20 Screen No. 1	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-070*	Conveyor to Aggregate Crusher No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-071*	Aggregate Crusher No. 2	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-072*	Conveyor from Crusher No. 2 to 6 x 20 Screen No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-073*	6 x 20 Screen No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-074*	Conveyor to Aggregate Crusher No. 3	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-075*	Aggregate Crusher No. 3	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-076*	Conveyor from Crusher No. 3 to 8 x 20 Screen (F-077)	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-106*	Conveyor to Aggregate Crusher No. 4	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-107*	Aggregate Crusher No. 4	PM	N/A	N/A
		Opacity	15%	40 CFR §60.672(c)
F-108*	Conveyor from Crusher No. 4 to 8 x 20 Screen (F-077)	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-077*	8 x 20 Screen (Common to No. 3 and No. 4 Crusher Lines)	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)

F-078*	Recycle Conveyor from Screens to Surge Hopper	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-079*	Conveyor from 8 x 20 Screen to Silo Conveyor System	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)

* - Emissions from these sources are fugitive.

Provisos for Finished Aggregate Screening and Crushing System

Federally Enforceable Provisos	Regulatory Citation
<i>Applicability</i>	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, “ <i>Fugitive Dust and Fugitive Emissions</i> ”.	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart OOO, “ <i>Standards of Performance for Nonmetallic Mineral Processing Plants</i> ”.	40 CFR §60.670(a)(1),(e)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, “ <i>General Provisions</i> ”.	40 CFR §60.670(f)
<i>Emissions Standards</i>	
1. Wet suppression shall be utilized at all times in order to minimize fugitive emissions from stockpiles, screens, crushers, hoppers, bins, conveyors, transfer points, etc.	ADEM Admin. Code r. 335-3-16-.05
2. The opacity of any fugitive emissions discharged into the atmosphere from any transfer point on belt conveyors shall not exceed ten (10%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(b)
3. The opacity of any fugitive emissions discharged into the atmosphere from any crusher, at which a capture system is not used, shall not exceed fifteen (15%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(c)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §60.675, except as provided in §60.8(b). Acceptable alternative methods and procedures are allowed as specified in §60.675(e).	40 CFR §60.675(a)
2. Visible emissions observations (VEO) shall be conducted in accordance with §60.11 and Method 9 of 40 CFR 60,	40 CFR §60.675(c)(1)

Federally Enforceable Provisos	Regulatory Citation
Appendix A, with the following additions:	
(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).	40 CFR §60.675(c)(1)(i)
(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.	40 CFR §60.675(c)(1)(ii)
(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.	40 CFR §60.675(c)(1)(iii)
3. When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:	40 CFR §60.675(c)(3)
(a) There are no individual readings greater than ten (10%) percent opacity; and	40 CFR §60.675(c)(3)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(3)(ii)
4. When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used, as described under §60.672(c), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply.	40 CFR §60.675(c)(4)
(a) There are no individual readings greater than fifteen (15%) percent opacity; and	40 CFR §60.675(c)(4)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(4)(ii)

Federally Enforceable Provisos	Regulatory Citation
5. The following may be used as alternatives to the reference methods and procedures specified in §60.675 if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read	40 CFR §60.675(e)(1)
(a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.	40 CFR §60.675(e)(1)(i)
(b) Separate the emissions so that the opacity of emissions from each affected facility can be read.	40 CFR §60.675(e)(1)(ii)
6. If, after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least seven (7) days prior to any rescheduled performance test.	40 CFR §60.675(g)
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)

Federally Enforceable Provisos		Regulatory Citation						
Recordkeeping Requirements								
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
Reporting Requirements								
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>	Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th		ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)						

Federally Enforceable Provisos	Regulatory Citation
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	ADEM Admin. Code r. 335-3-16-.05(c)(3)
(e) Signature of the responsible official as required by General Permit Proviso No. 9.	ADEM Admin. Code r. 335-3-16-.05(c)(3)
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.	40 CFR §60.676(f)

Summary Page for Aggregate Storage and Loading

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-080*	Conveyor from Crushing Area to Silos No. 1 and No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-081*	Conveyor from Crushing Area to Silos No. 1 and No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-082*	Conveyor from Crushing Area to Silos No. 1 and No. 2	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-085*	Silo No. 1	PM	N/A	N/A
		Opacity	N/A	N/A
F-086*	Silo No. 2	PM	N/A	N/A
		Opacity	N/A	N/A
F-084*	Conveyor from Silo No. 2 to Silo No. 3	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-087*	Silo No. 3	PM	N/A	N/A
		Opacity	N/A	N/A
F-088*	Silo No. 4	PM	N/A	N/A
		Opacity	N/A	N/A
F-089*	Silo No. 5	PM	N/A	N/A
		Opacity	N/A	N/A
F-090*	Conveyor from Silos to Loading Area	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-091*	Conveyor from Silos to Loading Area	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)

F-092*	Conveyor from Silos to Loading Area	PM	N/A	N/A
		Opacity	10%	40 CFR §60.672(b)
F-093*	Loading Area	PM	N/A	N/A
		Opacity	N/A	N/A

* - Emissions from these sources are fugitive.

Provisos for Finished Aggregate Storage and Loading

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart OOO, <i>“Standards of Performance for Nonmetallic Mineral Processing Plants”</i> .	40 CFR §60.670(a)(1),(e)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, <i>“General Provisions”</i> .	40 CFR §60.670(f)
Emissions Standards	
1. Wet suppression shall be utilized at all times in order to minimize fugitive emissions from stockpiles, screens, crushers, hoppers, bins, conveyors, transfer points, etc.	ADEM Admin. Code r. 335-3-16-.05
2. The opacity of any fugitive emissions discharged into the atmosphere from any transfer point on belt conveyors shall not exceed ten (10%) percent opacity, as determined by a six-minute average.	40 CFR §60.672(b)
3. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements 40 CFR 60, Subpart OOO.	40 CFR §60.672(d)
Compliance and Performance Test Methods and Procedures	
1. In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §60.675, except as provided in §60.8(b). Acceptable alternative methods and procedures are allowed as specified in §60.675(e).	40 CFR §60.675(a)
2. Visible emissions observations (VEO) shall be conducted in accordance with §60.11 and Method 9 of 40 CFR 60,	40 CFR §60.675(c)(1)

Federally Enforceable Provisos	Regulatory Citation
Appendix A, with the following additions:	
(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).	40 CFR §60.675(c)(1)(i)
(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.	40 CFR §60.675(c)(1)(ii)
(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.	40 CFR §60.675(c)(1)(iii)
3. When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b), the duration of the Method 9 observations may be reduced from three (3) hours (thirty six-minute averages) to one (1) hour (ten six-minute averages) only if the following conditions apply:	40 CFR §60.675(c)(3)
(a) There are no individual readings greater than ten (10%) percent opacity; and	40 CFR §60.675(c)(3)(i)
(b) There are no more than three (3) readings of ten (10%) percent for the one (1) hour period.	40 CFR §60.675(c)(3)(ii)
4. The following may be used as alternatives to the reference methods and procedures specified in §60.675 if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read	40 CFR §60.675(e)(1)
(a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.	40 CFR §60.675(e)(1)(i)
(b) Separate the emissions so that the opacity of emissions from each affected facility can be read.	40 CFR §60.675(e)(1)(ii)

Federally Enforceable Provisos	Regulatory Citation
5. If, after thirty (30) days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least seven (7) days prior to any rescheduled performance test.	40 CFR §60.675(g)
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
Recordkeeping Requirements	
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2)

Federally Enforceable Provisos		Regulatory Citation						
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.		ADEM Admin. Code r. 335-3-16-.05(c)(2)						
Reporting Requirements								
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(e) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.		40 CFR §60.676(f)						

Summary Page for Coal Mill

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-095*	Coal Hopper/Truck Unloading Operations	PM	N/A	N/A
		Opacity	20%	40 CFR §60.252(c)
F-096*	Slow Belt/Incline Belt	PM	N/A	N/A
		Opacity	20%	40 CFR §60.252(c)
F-097*	Coal Crusher	PM	N/A	N/A
		Opacity	20%	40 CFR §60.252(c)
F-098*	Coal Silo	PM	N/A	N/A
		Opacity	20%	40 CFR §60.252(c)
F-099*	Belt Conveyor Scale	PM	N/A	N/A
		Opacity	20%	40 CFR §60.252(c)

* - Emissions from these sources are fugitive.

Provisos for Coal Mill

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, <i>“Major Source Operating Permits”</i> .	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, <i>“Fugitive Dust and Fugitive Emissions”</i> .	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart Y, <i>“Standards of Performance for Coal Preparation Plants”</i> .	40 CFR §60.250(a) & (b)
4. These sources are subject to the applicable provisions of 40 CFR 60 Subpart A, <i>“General Provisions”</i> .	40 CFR §60.250(c)
Emissions Standards	
1. The opacity of any visible emissions discharged from any coal processing (including the crusher) and conveying equipment, coal storage systems, or coal transfer and loading system shall not exceed twenty (20%) percent.	40 CFR §60.252(c)
Compliance and Performance Test Methods and Procedures	
1. Particulate matter (PM) emissions shall be determined in accordance with Method 5 or Method 17 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
2. Visible emissions observations (VEO) shall be conducted in accordance with Method 9 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
3. Instantaneous visible emissions observations (VEO) shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
Emission Monitoring	
1. Opacity monitoring shall be performed as outlined below:	ADEM Admin. Code r. 335-3-16-.05(c)(1)

Federally Enforceable Provisos	Regulatory Citation
(a) A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(b) If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
(d) After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.	ADEM Admin. Code r. 335-3-16-.05(c)(1)
Recordkeeping Requirements	
1. Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2)
2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	ADEM Admin. Code r. 335-3-16-.05(c)(2)
Reporting Requirements	
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:	ADEM Admin. Code r. 335-3-16-.05(c)(3)

Federally Enforceable Provisos		Regulatory Citation
Reporting Period	Due Date	ADEM Admin. Code r. 335-3-16-.05(c)(3)
August 8 th through February 7 th	April 8 th	
February 8 th through August 7 th	October 7 th	
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)
(a) Detailed description of every instance in which the observed six-minute average visible emissions were equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;		ADEM Admin. Code r. 335-3-16-.05(c)(3)
(b) Copy of every visible emissions observation report generated during the reporting period;		ADEM Admin. Code r. 335-3-16-.05(c)(3)
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)
(e) Signature of the responsible official as required by General Permit Proviso No. 9.		ADEM Admin. Code r. 335-3-16-.05(c)(3)
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of any opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e) shall be submitted to Department.		40 CFR §60.676(f)

Summary Page for Gasoline Storage Tank

Permitted Operating Schedule:	24	$\frac{\text{hours}}{\text{day}}$	*	7	$\frac{\text{days}}{\text{week}}$	*	52	$\frac{\text{weeks}}{\text{year}}$	= 8,760	$\frac{\text{hours}}{\text{year}}$
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Emission Point	Unit Description	Pollutant	Emission Limit	Regulation
F-102*	Gasoline Storage Tank	VOC	N/A	N/A

* - Emissions from these sources are fugitive.

Provisos for Gasoline Storage Tank

Federally Enforceable Provisos	Regulatory Citation
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-4-.02, “ <i>Fugitive Dust and Fugitive Emissions</i> ”.	ADEM Admin. Code r. 335-3-4-.02
3. These sources are subject to the applicable requirements of 40 CFR 63, Subpart CCCCCC, “ <i>National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities</i> ”.	40 CFR §63.11111(a)
Emissions Standards	
1. There are no unit specific emissions standards which apply to this source.	N/A
Compliance and Performance Test Methods and Procedures	
1. In conducting the performance tests required in §63.7, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR 60 Appendix A, or other methods and procedures as specified in §63.11120. Acceptable alternative methods and procedures are allowed as specified in §63.7(f).	40 CFR §63.11120(a)
Emission Monitoring	
1. You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:	40 CFR §63.11116(a)
(a) Minimize gasoline spills;	40 CFR §63.11116(1)
(b) Clean up spills as expeditiously as practicable; immediately shut down.	40 CFR §63.11116(2)
(c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in	40 CFR §63.11116(3)

Federally Enforceable Provisos		Regulatory Citation						
use;								
(d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.		40 CFR §63.11116(4)						
2. You are not required to submit notifications or reports as specified in § 63.11125, § 63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.		40 CFR §63.11116(b)						
3. You must comply with the requirements of this subpart by the applicable dates specified in § 63.1111.		40 CFR §63.11116(c)						
4. Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.		40 CFR §63.11116(d)						
Recordkeeping Requirements								
1. Records of yearly gasoline throughput will be maintained in a permanent form suitable for inspection for a period of at least 5 years.		ADEM Admin. Code r. 335-3-16-.05(c)(2) & 40 CFR §63.11116(b)						
Reporting Requirements								
1. A semi-annual monitoring report shall be submitted to the Department according the following schedule:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
<table><tr><th>Reporting Period</th><th>Due Date</th></tr><tr><td>August 8th through February 7th</td><td>April 8th</td></tr><tr><td>February 8th through August 7th</td><td>October 7th</td></tr></table>		Reporting Period	Due Date	August 8 th through February 7 th	April 8 th	February 8 th through August 7 th	October 7 th	ADEM Admin. Code r. 335-3-16-.05(c)(3)
Reporting Period	Due Date							
August 8 th through February 7 th	April 8 th							
February 8 th through August 7 th	October 7 th							
2. Each semi-annual report shall contain the following information:		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(a) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(b) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and		ADEM Admin. Code r. 335-3-16-.05(c)(3)						
(c) Signature of the responsible official as required by		ADEM Admin. Code r.						

Federally Enforceable Provisos	Regulatory Citation
General Permit Proviso No. 9.	335-3-16-.05(c)(3)
3. Written reports documenting the results of all performance tests conducted to demonstrate compliance with the standards set forth in §63.11120(a) shall be submitted to Department.	ADEM Admin. Code r. 335-3-16-.05(c)(3)

APPENDIX A

Compliance Assurance Monitoring (CAM)

Kiln No. 1 with Multiclones and Wet Scrubber (EPN-1A)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2	Parameter No. 3
I. Indicator	<i>Visible Emissions (VE)</i>	<i>Scrubber Flow Rate</i>	<i>Emissions Testing</i>
<i>A. Measurement Approach</i>	A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	Properly maintained and operated devices shall be utilized to continuously measure the liquid flow rate across the wet scrubber.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p> <p>After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.</p>	<p>The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.</p> <p>When the observed pressure drop is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by liquid flow rate, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class II County.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Testing will also establish the ΔP, pH, and flow rate ranges which indicate compliance with the allowable emissions limit.</p>

III. Performance Criteria			
<i>A. Data Representativeness</i>	<p>The opacity of any visible emissions exiting the scrubber are indicative of proper operation and maintenance. High opacity indicates reduced scrubber performance.</p> <p>Proper scrubber operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Flow rate ranges are established during each annual emissions test which indicated compliance with the allowable emissions limits.</p> <p>Low pressure drops may indicate low liquid flow rates across the scrubber. High pressure drops may signal plugging or fouling.</p> <p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p>	The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.
<i>B. Verification of Operating Status</i>			
1. QA/QC Practices and Criteria	Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.	Water flow gauges shall be properly maintained and operated, as specified by the equipment manufacturer.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>C. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>D. Data Collection Procedures</i>	Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.	Records documenting the scrubber liquid flow rate shall be maintained in a permanent form suitable for inspection.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A

	<p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	
<i>E. Averaging Period</i>	<p>VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).</p>	<p>Flow rate shall monitored continuously. The unit of measurement shall be gallons per minute (gpm).</p>	<p>Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.</p>

Kiln No. 2 with Multiclones and Wet Scrubber (EPN-2A)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2	Parameter No. 3	Parameter No. 4
I. Indicator	Visible Emissions (VE)	Scrubber Flow Rate	Pressure Drop (ΔP)	Emissions Testing
B. Measurement Approach	A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	Properly maintained and operated devices shall be utilized to continuously measure the liquid flow rate across the wet scrubber.	A properly maintained and operated device shall be utilized to continuously measure the pressure differential (ΔP) across scrubber.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p>	<p>The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.</p> <p>When the observed pressure drop is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by liquid flow rate, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Pressure drop (ΔP) across the scrubber shall be maintained between 90% and 110% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.</p> <p>When the observed ΔP is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit</p>	<p>Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class II County.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Testing will also establish the ΔP, pH, and flow rate ranges which indicate compliance with the allowable emissions limit.</p>

	After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.			
III. Performance Criteria				
<i>F. Data Representativeness</i>	<p>The opacity of any visible emissions exiting the scrubber are indicative of proper operation and maintenance.</p> <p>High opacity indicates reduced scrubber performance.</p> <p>Proper scrubber operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Flow rate ranges are established during each annual emissions test which indicated compliance with the allowable emissions limits.</p> <p>Low pressure drops may indicate low liquid flow rates across the scrubber.</p> <p>High pressure drops may signal plugging or fouling.</p> <p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p>	<p>Pressure drop ranges are established during each annual emissions test which indicated compliance with the allowable emissions limit.</p> <p>Low ΔP may indicate low liquid flow rates across the scrubber.</p> <p>High ΔP may signal plugging or fouling.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p>
<i>G. Verification of Operating Status</i>				
2. QA/QC Practices and Criteria	<p>Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.</p>	<p>Water flow gauges shall be properly maintained and operated, as specified by the equipment manufacturer.</p>	<p>Pressure drop gauges shall be properly maintained and operated, as specified by the equipment manufacturer.</p>	<p>Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.</p>

<i>H. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>I. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p> <p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Records documenting the scrubber liquid flow rate shall be maintained in a permanent form suitable for inspection.</p> <p>Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	Records documenting the pressure differential (ΔP) across the scrubber shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A

<i>J. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	Flow rate shall be monitored continuously. The unit of measurement shall be gallons per minute (gpm).	ΔP shall monitored be continuously. The unit of measurement shall be inches of water.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.
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Kiln No. 3 with Multiclones and Wet Scrubber (EPN-3A)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2	Parameter No. 3
I. Indicator	Visible Emissions (VE)	Pressure Drop (ΔP)	Emissions Testing
C. Measurement Approach	A one (1) minute visible emissions observation shall be conducted on the wet scrubber stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	A properly maintained and operated device shall be utilized to continuously measure the pressure differential (ΔP) across scrubber.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down. If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p> <p>After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.</p>	<p>Pressure drop (ΔP) across the scrubber shall be maintained between 12.54 and 19.11 inches of H₂O.</p> <p>When the observed ΔP is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit</p>	<p>Particulate matter (PM) emissions from the stack associated with the kiln shall not exceed 0.36 lb/ton raw material feed and 22.97 lb/hr.</p> <p>Combined particulate matter (PM) emissions from the stacks associated with the kiln and cooler shall not exceed 0.52 lb/ton raw material feed and 33.67 lb/hr.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p>

III. Performance Criteria			
<i>K. Data Representativeness</i>	<p>The opacity of any visible emissions exiting the scrubber are indicative of proper operation and maintenance.</p> <p>High opacity indicates reduced scrubber performance.</p> <p>Proper scrubber operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Pressure drop ranges are based upon manufacturer suggested operating parameters.</p> <p>Low ΔP may indicate low liquid flow rates across the scrubber.</p> <p>High ΔP may signal plugging or fouling.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p>
<i>L. Verification of Operating Status</i>			
3. QA/QC Practices and Criteria	<p>Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.</p>	<p>Pressure drop gauges shall be properly maintained and operated, as specified by the equipment manufacturer.</p>	<p>Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.</p>
<i>M. Monitoring Frequency</i>	<p>Visible emissions shall be monitored and recorded weekly while the unit is in operation.</p>	<p>Measurements shall be conducted continuously while the affected source is in operation.</p>	<p>Emissions tests shall be conducted at least annually while the affected source is in operation.</p>
<i>N. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p>	<p>Records documenting the pressure differential (ΔP) across the scrubber shall be maintained in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A</p>

	<p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>		
<i>O. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	ΔP shall be monitored continuously. The unit of measurement shall be inches of water.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.

Kiln No. 3 with Multiclones and Wet Scrubber (EPN-3A)

Sulfur Dioxide Emissions (SO₂)

	Parameter No.1	Parameter No. 2	Parameter No. 3	Parameters No. 4 and No. 5
I. Indicator	Scrubber Flow Rate	Pressure Drop (ΔP)	pH	Emissions Testing
D. Measurement Approach	Properly maintained and operated devices shall be utilized to continuously measure the liquid flow rate across the wet scrubber.	A properly maintained and operated device shall be utilized to continuously measure the pressure differential (ΔP) across scrubber.	A properly maintained and operated device shall be utilized to continuously measure the pH of the scrubber liquid.	Sulfur dioxide emissions tests must be performed annually in accordance with Method 6 of 40 CFR 60 Appendix A. Additionally, during sulfur dioxide testing, removal efficiency shall be measured across the scrubber.
II. Indicator Range	<p>The scrubber liquid flow rate shall be maintained between 80% and 120% of that which was measured during the most recent stack test which indicated compliance with the applicable emissions limits.</p> <p>When the observed pressure drop is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by liquid flow rate, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Pressure drop (ΔP) across the scrubber shall be maintained between 12.54 and 19.11 inches of H₂O.</p> <p>When the observed ΔP is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>pH greater than 3.5 is indicative of proper scrubber liquid alkalinity for sufficient SO₂ removal.</p> <p>When the observed pH falls below the required minimum, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper scrubber operation, as indicated by pH, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Sulfur dioxide (SO₂) emissions from the stack associated with the kiln shall not exceed 2.24 lb/ton of raw material feed and 145.0 lb/hr.</p> <p>The scrubber shall be maintained and properly operated in such a manner as to maintain a minimum SO₂ removal efficiency of 80%.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Favorable removal efficiency test results would indicate compliance with the minimum removal efficiency requirement.</p>

III. Performance Criteria				
<i>P. Data Representativeness</i>	<p>Flow rate ranges are established during each annual emissions test which indicated compliance with the allowable emissions limits.</p> <p>Low pressure drops may indicate low liquid flow rates across the scrubber.</p> <p>High pressure drops may signal plugging or fouling.</p> <p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p>	<p>Pressure drop ranges are based upon manufacturer suggested operating parameters.</p> <p>Low ΔP may indicate low liquid flow rates across the scrubber.</p> <p>High ΔP may signal plugging or fouling.</p> <p>Proper scrubber operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>pH is indicative of proper scrubber liquid alkalinity for sufficient SO_2 removal.</p> <p>pH below the minimum requirement may indicate insufficient SO_2 removal efficiency.</p>	<p>The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.</p> <p>The ratio of sulfur dioxide entering and exiting the scrubber are indicative of proper operation and maintenance.</p>
<i>Q. Verification of Operating Status</i>				
4. QA/QC Practices and Criteria	Water flow gauges shall be properly maintained and operated, as specified by the equipment manufacturer.	Pressure drop gauges shall be properly maintained and operated, as specified by the equipment manufacturer.	pH monitors shall be properly maintained and operated, as specified by the equipment manufacturer.	Sulfur dioxide emissions tests must be performed in accordance with Method 6 of 40 CFR 60 Appendix A.
<i>R. Monitoring Frequency</i>	Measurements shall be conducted continuously while the affected source is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>S. Data Collection Procedures</i>	Records documenting the scrubber liquid flow rate shall be maintained in a permanent form suitable	Records documenting the pressure differential (ΔP) across the scrubber shall be maintained in a	Records documenting the pH across the scrubber shall be maintained in a	Sulfur dioxide emissions tests must be performed annually in accordance with Method 6 of 40

	<p>for inspection.</p> <p>Records of all data charts, performance evaluations, calibration checks, adjustments, maintenance, and any other information regarding the continuous monitoring systems shall be maintained in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>CFR 60 Appendix A.</p>
<p><i>T. Averaging Period</i></p>	<p>Flow rate shall be monitored continuously. The unit of measurement shall be gallons per minute (gem).</p>	<p>ΔP shall be monitored continuously. The unit of measurement shall be inches of water.</p>	<p>pH be shall monitored continuously.</p>	<p>Sulfur dioxide emissions tests must be performed in accordance with Method 6 of 40 CFR 60 Appendix A.</p>

Cooler No. 1 with Multiclones (EPN-1B)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2
I. Indicator	Visible Emissions (VE)	Emissions Testing
A. Measurement Approach	A one (1) minute visible emissions observation shall be conducted on the multiclone stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p> <p>After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.</p>	<p>Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class II County.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Testing will also establish the ΔP, pH, and flow rate ranges which indicate compliance with the allowable emissions limit.</p>
III. Performance Criteria		
A. Data Representativeness	<p>The opacity of any visible emissions exiting the multiclone are indicative of proper operation and maintenance.</p> <p>High opacity indicates reduced multiclone performance.</p> <p>Proper multiclone operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.

<i>B. Verification of Operating Status</i>		
i. QA/QC Practices and Criteria	Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>C. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>D. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p> <p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>E. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.

Cooler No. 2 with Multiclones (EPN-2B)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2
I. Indicator	Visible Emissions (VE)	Emissions Testing
A. Measurement Approach	A one (1) minute visible emissions observation shall be conducted on the multiclone stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p> <p>After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.</p>	<p>Combined particulate matter (PM) emissions from the scrubber stack associated with the kiln and the multiclone stack associated with the cooler shall not exceed that which is determined by the equation for a Class II County.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Testing will also establish the ΔP, pH, and flow rate ranges which indicate compliance with the allowable emissions limit.</p>
III. Performance Criteria		
A. Data Representativeness	<p>The opacity of any visible emissions exiting the multiclone are indicative of proper operation and maintenance.</p> <p>High opacity indicates reduced multiclone performance.</p> <p>Proper multiclone operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.

<i>B. Verification of Operating Status</i>		
i. QA/QC Practices and Criteria	Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>C. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>D. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p> <p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the scrubber or multiclone shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>E. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.

Cooler No. 3 with Baghouse (EPN-3B)

Particulate Matter Emissions (PM)

	Parameter No. 1	Parameter No. 2	Parameter No. 3
I. Indicator	Visible Emissions (VE)	Pressure Drop (ΔP)	Emissions Testing
A. <i>Measurement Approach</i>	A one (1) minute visible emissions observation shall be conducted on the multiclone stack at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A. These observations shall be performed during daylight hours while the affected source is in operation.	A properly maintained and operated device shall be utilized to continuously measure the pressure differential (ΔP) across the baghouse.	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
II. Indicator Range	<p>If the instantaneous visible emissions opacity observed during the Method 22 observation is greater than ten (10%) percent, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If the average opacity exceeds ten (10%) percent, as determined during any six-minute average, corrective action shall be initiated within two (2) hours.</p>	Pressure drop (ΔP) across the cooler baghouse shall be maintained between a minimum of one (1) inches of water and a maximum of ten (10) inches of water.	<p>Particulate matter (PM) emissions from the stack associated with the cooler shall not exceed 0.17 lb/ton raw material feed and 10.70 lb/hr.</p> <p>Combined particulate matter (PM) emissions from the stacks associated with the kiln and cooler shall not exceed 0.52 lb/ton raw material feed and 33.67 lb/hr.</p> <p>Should the measured emissions rate exceed the allowable emissions limit, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p>

	After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.		
III. Performance Criteria			
<i>A. Data Representativeness</i>	<p>The opacity of any visible emissions exiting the baghouse are indicative of proper operation and maintenance. High opacity indicates reduced filter performance.</p> <p>When the observed opacity is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p> <p>Proper baghouse operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	<p>Pressure drop across the baghouse is indicative of the proper operation of the filter. High ΔP may indicate filter bag blinding, plugging in dust hoppers, or improper valve operation.</p> <p>Low ΔP may indicate damaged or detached filter bags or improper valve operation.</p> <p>Proper baghouse operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>	The concentration of emissions exiting the scrubber are indicative of proper operation and maintenance.
<i>B. Verification of Operating Status</i>			
i. QA/QC Practices and Criteria	Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.	Pressure drop gauges shall be properly maintained and operated, as specified by the equipment manufacturer.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.

<i>C. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Measurements shall be conducted continuously while the affected source is in operation.	Emissions tests shall be conducted at least annually while the affected source is in operation.
<i>D. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p> <p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the baghouse shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Records documenting the pressure differential (ΔP) across the cooler baghouse shall be maintained in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	Particulate matter emissions tests must be performed annually in accordance with Method 5 of 40 CFR 60 Appendix A.
<i>E. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	ΔP shall be monitored continuously. The unit of measurement shall be inches of water.	Particulate matter emissions tests must be performed in accordance with Method 5 of 40 CFR 60 Appendix A.

Kiln Dust Transport System with Baghouses (EPN-4 and EPN-5)

Particulate Matter Emissions (PM)

	Parameter No.1	Parameter No. 2
I. Indicator	Visible Emissions (VE)	Pressure Drop (ΔP)
A. <i>Measurement Approach</i>	A one (1) minute visible emissions observation shall be conducted at least weekly in accordance with Method 22 of 40 CFR 60 Appendix A, during daylight hours while the affected source is in operation.	A properly maintained and operated device shall be utilized to continuously measure the pressure differential (ΔP) across each baghouse.
II. Indicator Range	<p>If any visible emissions are observed during the Method 22 observation, a twelve (12) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within thirty (30) minutes of the initial observation, unless the source is immediately shut down.</p> <p>If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.</p> <p>After correction action has been completed, a follow-up visible emissions observation shall be conducted in accordance with Method 22 of 40 CFR 60, Appendix A, in order to ensure that no visible emissions are present.</p>	Pressure drop (ΔP) across each baghouse shall be maintained between a minimum of one (1) inches of water and a maximum of ten (10) inches of water.
III. Performance Criteria		
A. <i>Data Representativeness</i>	<p>The opacity of any visible emissions exiting the baghouse are indicative of proper operation and maintenance. High opacity indicates reduced filter performance.</p> <p>When the observed opacity is outside of the indicator range, the event will be recorded as an excursion and must be reported to the Department as a deviation.</p>	<p>Pressure drop across the baghouse is indicative of the proper operation of the filter. High ΔP may indicate filter bag blinding, plugging in dust hoppers, or improper valve operation.</p> <p>Low ΔP may indicate damaged or detached filter bags or improper valve operation.</p> <p>Proper baghouse operation, as indicated by ΔP, would result in a reasonable assumption that emissions below the allowable emissions limit.</p>

	Proper baghouse operation, as indicated by opacity, would result in a reasonable assumption that emissions below the allowable emissions limit.	
<i>B. Verification of Operating Status</i>		
i. QA/QC Practices and Criteria	Observations shall be performed during daylight hours while the affected source is in operation by personnel familiar with visible emissions observation procedures.	Pressure drop gauges shall be properly maintained and operated, as specified by the equipment manufacturer.
<i>C. Monitoring Frequency</i>	Visible emissions shall be monitored and recorded weekly while the unit is in operation.	Measurements shall be conducted continuously while the affected source is in operation.
<i>D. Data Collection Procedures</i>	<p>Records of the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection.</p> <p>If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.</p> <p>Records documenting any inspections or maintenance performed on the baghouse shall be kept in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>Records documenting the pressure differential (ΔP) across the cooler baghouse shall be maintained in a permanent form suitable for inspection.</p> <p>These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>
<i>E. Averaging Period</i>	VE observations shall be conducted accordance with Methods 22 and/or Method 9 of 40 CFR 60 Appendix A (as required).	ΔP shall be monitored continuously. The unit of measurement shall be inches of water.